Copper-catalyzed Synthesis and Antimicrobial Activity of Disubstituted 1,2,3-Triazoles Starting from 1-Propargyluracils and Ethyl (4-Azido-1,2,3-trihydroxybutyl)furan-3-carboxylate

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1,3-Dipolar cycloaddition reactions of 1-propargyluracils 2\textit{a} – \textit{h} with the azido derivative 3 afforded the corresponding 1,2,3-triazoles 4\textit{a} – \textit{h}. Hydrazinolysis of the esters 4\textit{a} – \textit{h} gave the corresponding acid hydrazides 5\textit{a} – \textit{h}. Reaction of 5\textit{a} – \textit{h} with carbon disulfide in ethanol afforded 6\textit{a} – \textit{h}. The antimicrobial activity of compounds 4 – 6 was determined.

\textit{Key words:} 1,3-Dipolar Cycloaddition, 1,2,3-Triazoles, 1,3,4-Oxadiazoles, Antimicrobial Activity